

Title (en)  
BATTERY MODULE AND METHOD FOR MANUFACTURING SAME

Title (de)  
BATTERIEMODUL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
MODULE DE BATTERIE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2887426 A1 20150624 (EN)**

Application  
**EP 13879531 A 20130816**

Priority  
• US 201213587030 A 20120816  
• KR 2013007364 W 20130816

Abstract (en)  
A battery module and a method for assembling the battery module are provided. The battery module includes a first end plate, a second end plate, a frame member, a first battery cell disposed between the first end plate and the frame member, and a second battery cell disposed between the second end plate and the frame member. The battery module further includes a first shoulder bolt having a first head portion, a first shaft portion, a first shoulder portion, and a first threaded portion. The first shoulder bolt is disposed such that the first head portion is disposed against the first end plate and the first shaft portion extends through a first aperture of the first end plate and a first aperture of the frame member, and the first shoulder portion is disposed against the second end plate.

IPC 8 full level  
**H01M 10/04** (2006.01); **H01M 50/211** (2021.01); **H01M 50/224** (2021.01); **H01M 50/262** (2021.01); **H01M 50/291** (2021.01); **H01M 50/293** (2021.01); **H01M 10/0525** (2010.01); **H01M 10/65** (2014.01)

CPC (source: CN EP US)  
**H01M 10/0468** (2013.01 - US); **H01M 10/0481** (2013.01 - CN EP US); **H01M 50/211** (2021.01 - CN EP US); **H01M 50/224** (2021.01 - CN EP US); **H01M 50/262** (2021.01 - CN EP US); **H01M 50/291** (2021.01 - CN EP US); **H01M 50/293** (2021.01 - CN EP US); **H01M 10/0525** (2013.01 - CN EP US); **H01M 10/6557** (2015.04 - EP US); **H01M 10/6566** (2015.04 - EP US); **Y02E 60/10** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP); **Y10T 29/49108** (2015.01 - EP US)

Cited by  
EP4231422A4

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 2014050966 A1 20140220**; **US 9306199 B2 20160405**; CN 104737327 A 20150624; CN 104737327 B 20170215; EP 2887426 A1 20150624; EP 2887426 A4 20150805; EP 2887426 B1 20170503; JP 2015529949 A 20151008; JP 6068641 B2 20170125; KR 101709547 B1 20170308; KR 20150046042 A 20150429; WO 2014027853 A1 20140220

DOCDB simple family (application)  
**US 201213587030 A 20120816**; CN 201380043834 A 20130816; EP 13879531 A 20130816; JP 2015526476 A 20130816; KR 2013007364 W 20130816; KR 20157004175 A 20130816